

Project Based Interview Question

Scenario:

Imagine you are tasked with building a simple web application for a local farmers' market. This application will allow farmers to register and list their products for sale. Customers can browse the product listings by category, filter by location (if applicable), and contact the farmer directly to inquire or place an order (without actual payment processing).

Your Challenge:

Develop a prototype of a single-page application (SPA) that demonstrates the following functionalities:

- **Farmer Registration:** A form for farmers to register with basic information (name, farm name, contact details).
- **Product Listing:** A dynamic list of available products with details like name, description, category, and farmer information.
- **Product Filtering:** Allow users to filter products by category (dropdown or similar selection). - (Optional Bonus) Implement location filtering if the market has multiple locations.
- **Contact Farmer:** Provide a way for users to contact a specific farmer about a product (e.g., email link or contact form).

Technical Considerations:

- You are free to choose your preferred frontend framework (React, Angular, Vue.js, etc.) and backend technology (Node.js, Python with Django/Flask, etc.). However, be prepared to discuss your choices and explain why they are suitable for this project.
- Focus on demonstrating your ability to build a functional prototype with user interaction. You don't need to implement a full-fledged database or user authentication system. Use dummy data for product listings to showcase the functionalities.
- The emphasis is on clean, well-structured code, user experience, and your problem-solving approach.